C20-CAI-502/CM–503

7637

BOARD DIPLOMA EXAMINATION, (C-20)

DECEMBER—2022

DCME - FIFTH SEMESTER EXAMINATION

SOFTWARE ENGINEERING

Time : 3 hours] [*Total Marks* : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Write the differences between programs and software products.

2. What is scheduling?

3. What is staffing?

4. List the contents of the SRS document.

5. Define cohesion and coupling.

6. What are the characteristics of good user interface?

7. Write three differences between function oriented design and object oriented design.

8. What is software testing?

9. Compare hardware and software reliability.

10. Define software quality.

PART—B

8×5=40

*

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain classical waterfall model with the help of a neat diagram.

(OR)

(b) Explain prototype model with the help of a neat diagram.

12. *(a)* Explain empirical estimation technique.

(OR)

(b) Explain about software project planning.

13. *(a)* What are the characteristics of a good SRS document.

(OR)

(b) Discuss functional requirements with examples.

14. *(a)* Explain different types of coupling.

*

(OR)

(b) Explain different cohesion types that a module may possess.

15. *(a)* Explain different integration testing approaches.

(OR)

(b) Compare hardware reliability and software reliability.

*

PART—C

10×1=10

Instructions : (1) Answer the following question.

(2) The question carries **ten** marks.

(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Draw a sample use case diagram showing all main functions of the atm system and write the "withdraw transaction", use case template.

★★★